



Chemically and Biologically Protected Shelter (CBPS)

What It Is:

Contamination free: that's a property of particular importance to medical facilities. Our Chemically and Biologically Protected Shelter (CBPS) is an environmentally controlled work area that filters out nuclear, biological and chemical agents. The shelter can operate as a battalion aid station for medical treatment in a contaminated environment.

Why It's Needed:

We plan to replace the M51 Chemically Protected Shelter, which is cumbersome and difficult to use, has a flawed airlock design and is costly to maintain.

How It Works:

These components make the CBPS a highly mobile, self-contained shelter:

- **Dedicated Transportation...** We'll transport the CBPS on a new version of the HMMWV: a vehicle with an extended capacity for heavy loads, known as the M1113.
- **Rigid-Wall Shelter...** Our LMS — the Lightweight Multipurpose Shelter — fits on the back of a HMMWV, providing room for two passengers and their gear.
- **Soft Shelter...** This 300-ft² tent is supported by airbeams, fabric cylinders that are inflated with air to form a semi-circular shape. The shelter can be rolled up and transported on the rear of the LMS.
- **Power Generator...** The HMMWV's engine provides the power to support all the system's operations. A high mobility trailer — towed by the HMMWV — carries a 10 kW generator for auxiliary power.



Benefits:

Easy To Set Up... Four personnel can make the CBPS operational in less than 20 minutes.

Fully Equipped... All the medical equipment needed to operate a battalion aid station will be stored inside the LMS or on the trailer. A hydraulically powered environmental support system provides heating, cooling and ventilation.

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